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AUTHOR Smith, Lawrence L.
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ABSTRACT

The six tables presented in this paper were prepared in the belief that more educators would use the Harris-Jacobson Readability Formulas if the operations employed in those formulas to determine the estimated readability level of materials could be completed more quickly and with fewer calculations. Instructions for using the tables are included. (FL)

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Time-Saving Tables for Computing the Harris-Jacobson Readability Formulas

Lawrence L. Smith
College of Education
University of Florida
Gainesville, Florida 32611

Professors Albert J. Harris and Milton D. Jacobson have developed two readability formulas (Sipay and Harris, 1975). Formula I is to be used with passages that are probably written below fourth-grade level. Formula II is to be used with passages that appear to be at or above the fourth-grade difficulty level. According to the authors, the formulas are both valid and reliable for determining the difficulty level of reading material. However, the Harris-Jacobson Readability Formulas are time consuming to work and many educators avoid using these formulas because they are time consuming and many people feel that the math is too complicated. It is believed by this writer that more people would use the Harris-Jacobson Readability Formulas if the operations to determine the estimated readability level could be done quicker and with fewer calculations.

The purpose of this paper is to provide tables to be used with the Harris-Jacobson Readability Formulas in order that those persons who desire to use the formulas but do not want to do all the calculations may do so.

The steps for using the tables are:

1. Count the number of words in the sample.*
2. Count the number of sentences in the sample.*
3. Count the number of words not on the Harris-Jacobson Short Readability Word List.*
4. Select which formula is to be used for determining the difficulty level of the materials.
5. Using Table I for the appropriate formula, find the intersection of the number of words and the number of sentences in the sample.
6. Using Table II for the appropriate formula, find the intersection of the number of words and the number of words not on the Short Word List in the sample. (It should be noted that even with zero words not on the Short Word List, it is still necessary to use Table II.)

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7. Add the scores from steps 5 and 6 to determine the Predicted Score.

8. Using the appropriate column in Table 14 of Harris & Sipay, page 661 (1975), find the readability level corresponding to the Predicted Score.

An example for using the tables for Formula II follows:

Sample - 218 words, 22 sentences, 60 words not in the Short List

218 words and 22 sentences	=	1.516
218 words and 60 words not in Short List	=	4.414
Predicted Score		5.930

A Predicted Score of 5.93 corresponds to a readability level of seventh grade.

Hopefully, those persons who use or would like to use the Harris-Jacobson Readability Formulas will find the tables helpful.

*As described in Harris and Sipay (1975).

Reference

Harris, Albert J. and Edward R. Sipay. How to Increase Reading Ability, Sixth Edition. New York: David McKay Company, Inc., 1975.

Tables for Computing the Harris-Jacobson Readability Formula I

Prepared by Lawrence L. Smith

University of Florida

Table I - Sentence Length

Number of Words in Sample

Number of Sentences in Sample

	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225
10	3.360	3.377	3.394	3.410	3.427	3.444	3.461	3.478	3.494	3.511	3.528	3.545	3.562	3.578	3.595	3.612	3.629	3.646	3.662	3.679	3.696	3.713	3.730	3.746	3.763	3.780
11	3.065	3.079	3.094	3.109	3.124	3.139	3.154	3.169	3.177	3.192	3.207	3.223	3.238	3.253	3.268	3.284	3.299	3.314	3.329	3.345	3.360	3.375	3.391	3.406	3.421	3.436
12	2.800	2.814	2.828	2.842	2.856	2.870	2.884	2.898	2.912	2.926	2.940	2.954	2.968	2.982	2.996	3.010	3.024	3.038	0.3052	1.066	3.080	3.094	3.108	3.122	3.136	3.150
13	2.585	2.598	2.610	2.623	2.636	2.649	2.662	2.675	2.688	2.701	2.714	2.727	2.740	2.753	2.766	2.778	2.791	2.804	2.817	2.130	2.843	2.856	2.869	2.882	2.895	2.908
14	2.400	2.412	2.424	2.436	2.448	2.460	2.472	2.484	2.496	2.508	2.520	2.532	2.544	2.556	2.568	2.580	2.592	2.604	2.616	2.628	2.640	2.652	2.664	2.676	2.688	2.700
15	2.240	2.251	2.262	2.274	2.285	2.296	2.307	2.318	2.330	2.341	2.352	2.363	2.374	2.386	2.397	2.408	2.419	2.430	2.442	2.453	2.464	2.475	2.486	2.498	2.509	2.520
16	2.100	2.110	2.121	2.131	2.142	2.152	2.163	2.173	2.184	2.194	2.205	2.215	2.226	2.236	2.247	2.257	2.268	2.278	2.289	2.299	2.310	2.320	2.331	2.341	2.352	2.362
17	1.976	1.986	1.996	2.006	2.016	2.026	2.036	2.046	2.056	2.065	2.075	2.085	2.095	2.105	2.115	2.125	2.135	2.144	2.154	2.164	2.174	2.184	2.194	2.204	2.214	2.224
18	1.867	1.876	1.885	1.895	1.904	1.913	1.923	1.932	1.941	1.951	1.960	1.969	1.979	1.988	1.997	2.007	2.016	2.025	2.035	2.044	2.053	2.063	2.072	2.081	2.091	2.100
19	1.768	1.777	1.786	1.795	1.804	1.813	1.821	1.830	1.839	1.848	1.857	1.866	1.875	1.883	1.892	1.901	1.910	1.919	1.928	1.936	1.945	1.954	1.963	1.972	1.981	1.989
20	1.680	1.688	1.697	1.705	1.714	1.722	1.730	1.739	1.747	1.756	1.764	1.772	1.781	1.789	1.798	1.806	1.814	1.823	1.831	1.840	1.848	1.856	1.865	1.873	1.882	1.890
21	1.600	1.608	1.616	1.624	1.632	1.640	1.648	1.656	1.664	1.672	1.680	1.688	1.696	1.704	1.712	1.720	1.728	1.736	1.744	1.752	1.760	1.768	1.776	1.784	1.792	1.800
22	1.527	1.535	1.543	1.550	1.558	1.565	1.573	1.581	1.588	1.596	1.604	1.611	1.619	1.627	1.634	1.642	1.649	1.657	1.665	1.672	1.680	1.688	1.695	1.703	1.711	1.718
23	1.461	1.468	1.475	1.483	1.490	1.497	1.505	1.512	1.519	1.527	1.534	1.541	1.549	1.556	1.563	1.570	1.578	1.585	1.592	1.600	1.607	1.614	1.622	1.629	1.636	1.643
24	1.400	1.407	1.414	1.421	1.428	1.435	1.442	1.449	1.456	1.463	1.470	1.477	1.484	1.491	1.498	1.505	1.512	1.519	1.526	1.533	1.540	1.547	1.554	1.561	1.568	1.575
25	1.344	1.351	1.357	1.364	1.371	1.378	1.384	1.391	1.398	1.404	1.411	1.418	1.425	1.431	1.438	1.445	1.452	1.458	1.465	1.472	1.478	1.485	1.492	1.499	1.505	1.512
26	1.292	1.299	1.305	1.312	1.318	1.325	1.331	1.338	1.344	1.350	1.357	1.363	1.370	1.376	1.383	1.389	1.396	1.402	1.409	1.415	1.422	1.428	1.434	1.441	1.447	1.454
27	1.244	1.251	1.257	1.263	1.269	1.276	1.282	1.288	1.294	1.300	1.307	1.313	1.319	1.325	1.332	1.338	1.344	1.350	1.356	1.363	1.369	1.375	1.381	1.388	1.394	1.400
28	1.200	1.206	1.212	1.218	1.224	1.230	1.236	1.242	1.248	1.254	1.260	1.266	1.272	1.278	1.284	1.290	1.296	1.302	1.308	1.314	1.320	1.326	1.332	1.338	1.344	1.350
29	1.159	1.164	1.170	1.176	1.182	1.188	1.193	1.199	1.205	1.211	1.217	1.222	1.228	1.234	1.240	1.246	1.251	1.257	1.263	1.269	1.274	1.280	1.286	1.292	1.298	1.303
30	1.120	1.126	1.131	1.137	1.142	1.148	1.154	1.159	1.165	1.170	1.176	1.182	1.187	1.193	1.198	1.204	1.210	1.215	1.221	1.226	1.232	1.238	1.243	1.249	1.254	1.260
31	1.084	1.089	1.095	1.100	1.106	1.111	1.116	1.122	1.127	1.133	1.138	1.143	1.149	1.154	1.160	1.165	1.171	1.176	1.181	1.187	1.192	1.198	1.203	1.209	1.214	1.219
32	1.050	1.055	1.060	1.066	1.071	1.076	1.081	1.087	1.092	1.097	1.102	1.108	1.113	1.118	1.123	1.129	1.134	1.139	1.144	1.150	1.155	1.160	1.165	1.171	1.176	1.181
33	1.018	1.023	1.028	1.033	1.039	1.044	1.049	1.054	1.059	1.064	1.069	1.074	1.079	1.084	1.089	1.095	1.100	1.105	1.110	1.115	1.120	1.125	1.130	1.135	1.140	1.145
34	0.988	0.993	0.998	1.003	1.008	1.013	1.018	1.023	1.028	1.033	1.038	1.043	1.048	1.052	1.057	1.062	1.067	1.072	1.077	1.082	1.087	1.092	1.097	1.102	1.107	1.112
35	0.960	0.965	0.970	0.974	0.979	0.984	0.989	0.994	0.998	1.003	1.008	1.013	1.018	1.022	1.027	1.032	1.037	1.042	1.046	1.051	1.056	1.061	1.066	1.070	1.075	1.080
36	0.933	0.938	0.943	0.947	0.952	0.957	0.961	0.966	0.971	0.975	0.980	0.985	0.989	0.994	0.999	1.003	1.008	1.013	1.017	1.022	1.027	1.031	1.036	1.041	1.045	1.050
37	0.908	0.913	0.917	0.922	0.926	0.931	0.935	0.940	0.944	0.949	0.954	0.958	0.963	0.967	0.972	0.976	0.981	0.985	0.990	0.994	0.999	1.003	1.008	1.013	1.017	1.022
38	0.884	0.889	0.893	0.897	0.902	0.906	0.911	0.915	0.920	0.924	0.928	0.933	0.937	0.942	0.946	0.951	0.955	0.959	0.964	0.968	0.973	0.977	0.981	0.986	0.990	0.995
39	0.862	0.866	0.870	0.874	0.879	0.883	0.887	0.892	0.896	0.900	0.905	0.909	0.913	0.918	0.922	0.926	0.930	0.935	0.939	0.943	0.948	0.952	0.956	0.961	0.965	0.969
40	0.840	0.844	0.848	0.853	0.857	0.861	0.865	0.869	0.874	0.878	0.882	0.886	0.890	0.895	0.899	0.903	0.907	0.911	0.916	0.920	0.924	0.929	0.932	0.937	0.941	0.945
41	0.820	0.824	0.828	0.832	0.836	0.840	0.844	0.848	0.852	0.856	0.860	0.865	0.869	0.873	0.877	0.881	0.885	0.889	0.893	0.897	0.901	0.906	0.910	0.914	0.918	0.922
42	0.800	0.804	0.808	0.812	0.816	0.820	0.824	0.828	0.832	0.836	0.840	0.844	0.848	0.852	0.856	0.860	0.864	0.868	0.872	0.876	0.880	0.884	0.888	0.892	0.896	0.900
43	0.781	0.785	0.789	0.793	0.797	0.801	0.805	0.809	0.813	0.817	0.820	0.824	0.828	0.832	0.836	0.840	0.844	0.848	0.852	0.856	0.860	0.863	0.867	0.871	0.875	0.879
44	0.764	0.767	0.771	0.775	0.779	0.783	0.787	0.790	0.794	0.798	0.802	0.806	0.809	0.813	0.817	0.821	0.825	0.829	0.832	0.836	0.840	0.844	0.848	0.851	0.855	0.859
45	0.747	0.750	0.754	0.758	0.762	0.765	0.769	0.773	0.777	0.780	0.784	0.788	0.791	0.795	0.799	0.803	0.806	0.810	0.814	0.818	0.821	0.825	0.829	0.833	0.836	0.840
46	0.730	0.734	0.738	0.741	0.745	0.749	0.752	0.756	0.760	0.763	0.767	0.771	0.774	0.778	0.782	0.785	0.789	0.793	0.796	0.800	0.803	0.807	0.811	0.814	0.818	0.822
47	0.715	0.718	0.722	0.727	0.729	0.733	0.736	0.740	0.743	0.747	0.751	0.754	0.758	0.761	0.765	0.769	0.772	0.776	0.779	0.783	0.786	0.790	0.794	0.797	0.801	0.804
48	0.700	0.703	0.707	0.710	0.714	0.717	0.721	0.724	0.728	0.731	0.735	0.738	0.742	0.745	0.749	0.752	0.756	0.759	0.763	0.766	0.770	0.773	0.777	0.780	0.784	0.787
49	0.686	0.689	0.693	0.696	0.699	0.703	0.706	0.710	0.713	0.717	0.720	0.723	0.727	0.730	0.734	0.737	0.741	0.744	0.747	0.751	0.754	0.758	0.761	0.765	0.768	0.771
50	0.672	0.675	0.679	0.682	0.685	0.689	0.692	0.696	0.699	0.702	0.706	0.709	0.712	0.716	0.719	0.722	0.726	0.729	0.732	0.736	0.739	0.743	0.746	0.749	0.753	0.756
51	0.659	0.662	0.665	0.669	0.672	0.675	0.679	0.682	0.685	0.688	0.692	0.695	0.698	0.702	0.705	0.708	0.712	0.715	0.718	0.721	0.725	0.728	0.731	0.735	0.738	0.741
52	0.646	0.649	0.653	0.656	0.659	0.662	0.666	0.669	0.672	0.675	0.678	0.682	0.685	0.688	0.691	0.695	0.698	0.701	0.704	0.708	0.711	0.714	0.717	0.720	0.724	0.727
53	0.634	0.637	0.640	0.643	0.647	0.650	0.653	0.656	0.659	0.662	0.666	0.669	0.672	0.675	0.678	0.682	0.685	0.688	0.691	0.694	0.697	0.701	0.704	0.707	0.710	0.713
54	0.622	0.625	0.628	0.632	0.635	0.638	0.641	0.644	0.647	0.650	0.653	0.656	0.660	0.663	0.666	0.669	0.672	0.675	0.678	0.681	0.684	0.688	0.691	0.694	0.697	0.700
55	0.611	0.614	0.617	0.620	0.623	0.626	0.629	0.632	0.635	0.638	0.641	0.645	0.648	0.651	0.654	0.657	0.660	0.663	0.666	0.669	0.672	0.675	0.678	0.681	0.684	0.687
56	0.600	0.603	0.606	0.609	0.612	0.615	0.618	0.621	0.624	0.627	0.630	0.633	0.636	0.639	0.642	0.645	0.648	0.651	0.654	0.657	0.660	0.663	0.666	0.669	0.672	0.675
57	0.589	0.592	0.595	0.598	0.601	0.604	0.607	0.610	0.613	0.616	0.619	0.622	0.625	0.628	0.631	0.634	0.637	0.640	0.643	0.645	0.648	0.651	0.654	0.657	0.660	0.663
58	0.579	0.582	0.585	0.588	0.591	0.594	0.597	0.600	0.602	0.605	0.608	0.611	0.614	0.617	0.620	0.623	0.626	0.629	0.631	0.634	0.637	0.640	0.643	0.646	0.649	0.652
59	0.569	0.572	0.575	0.578	0.581	0.584	0.587	0.589	0.592	0.595	0.598	0.601	0.604	0.607	0.609	0.612	0.615	0.618	0.621	0.624	0.626	0.629	0.632	0.635	0.638	0.641
60	0.560	0.563	0.566	0.568	0.571	0.574	0.577	0.580	0.582	0.585	0.588	0.591	0.594	0.596	0.599	0.602	0.605	0.608	0.610	0.613	0.616	0.619	0.622	0.624	0.627	0.630

Tables for Computing the Harris-Jacobson Readability Formula I

Prepared by Lawrence L. Smith

University of Florida

Table II - Number of "Unfamiliar Words"

Number of Words in Sample

Number of "Unfamiliar Words" in Sample

	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225
0	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502	0.502
1	0.549	0.549	0.549	0.549	0.549	0.548	0.548	0.548	0.548	0.547	0.547	0.547	0.547	0.547	0.546	0.546	0.546	0.546	0.546	0.545	0.545	0.545	0.545	0.545	0.544	0.544
2	0.596	0.596	0.596	0.595	0.595	0.594	0.594	0.593	0.593	0.592	0.592	0.592	0.591	0.591	0.590	0.590	0.590	0.589	0.589	0.588	0.588	0.588	0.587	0.587	0.586	0.586
3	0.643	0.643	0.642	0.641	0.641	0.640	0.639	0.639	0.638	0.637	0.637	0.636	0.636	0.635	0.634	0.634	0.633	0.632	0.632	0.631	0.631	0.630	0.630	0.629	0.628	0.628
4	0.690	0.690	0.689	0.688	0.687	0.686	0.685	0.684	0.683	0.682	0.682	0.681	0.680	0.679	0.678	0.677	0.677	0.676	0.675	0.674	0.673	0.673	0.672	0.671	0.670	0.670
5	0.737	0.736	0.735	0.734	0.733	0.732	0.731	0.730	0.728	0.727	0.726	0.725	0.724	0.723	0.722	0.721	0.720	0.719	0.718	0.717	0.716	0.715	0.714	0.713	0.712	0.711
6	0.784	0.783	0.782	0.780	0.779	0.778	0.776	0.775	0.774	0.772	0.771	0.770	0.769	0.767	0.766	0.765	0.764	0.762	0.761	0.760	0.759	0.758	0.757	0.755	0.754	0.753
7	0.831	0.830	0.828	0.827	0.825	0.823	0.822	0.820	0.819	0.817	0.816	0.814	0.813	0.811	0.810	0.809	0.807	0.806	0.804	0.803	0.802	0.800	0.799	0.798	0.796	0.795
8	0.878	0.877	0.875	0.873	0.871	0.869	0.868	0.866	0.864	0.862	0.861	0.859	0.[illegible]	0.856	0.854	0.852	0.851	0.849	0.847	0.846	0.844	0.843	0.841	0.840	0.838	0.837
9	0.925	0.923	0.921	0.919	0.917	0.915	0.913	0.911	0.909	0.907	0.905	0.903	0.902	0.900	0.898	0.896	0.894	0.892	0.891	0.889	0.887	0.885	0.884	0.882	0.880	0.878
10	0.972	0.970	0.968	0.966	0.963	0.961	0.959	0.957	0.954	0.952	0.950	0.948	0.946	0.944	0.942	0.940	0.938	0.936	0.934	0.932	0.930	0.928	0.926	0.924	0.922	0.920
11	1.019	1.017	1.014	1.012	1.009	1.007	1.004	1.002	1.000	0.997	0.995	0.993	0.990	0.988	0.986	0.983	0.981	0.979	0.977	0.975	0.972	0.970	0.968	0.966	0.964	0.962
12	1.066	1.064	1.061	1.058	1.055	1.053	1.050	1.047	1.045	1.042	1.040	1.037	1.035	1.032	1.030	1.027	1.025	1.022	1.020	1.018	1.015	1.013	1.011	1.008	1.006	1.004
13	1.113	1.110	1.107	1.104	1.102	1.099	1.096	1.093	1.090	1.087	1.084	1.082	1.079	1.076	1.074	1.071	1.068	1.066	1.063	1.060	1.058	1.055	1.053	1.050	1.048	1.046
14	1.160	1.157	1.154	1.151	1.148	1.144	1.141	1.138	1.135	1.132	1.129	1.126	1.123	1.120	1.117	1.115	1.112	1.109	1.106	1.103	1.101	1.098	1.095	1.093	1.090	1.087
15	1.207	1.204	1.201	1.197	1.194	1.190	1.187	1.184	1.180	1.177	1.174	1.171	1.168	1.164	1.161	1.158	1.155	1.152	1.149	1.146	1.143	1.141	1.138	1.135	1.132	1.129
16	1.254	1.251	1.247	1.243	1.240	1.236	1.233	1.229	1.226	1.222	1.219	1.215	1.212	1.209	1.205	1.202	1.199	1.196	1.192	1.189	1.186	1.183	1.180	1.177	1.174	1.171
17	1.301	1.298	1.294	1.290	1.286	1.282	1.278	1.274	1.271	1.267	1.263	1.260	1.256	1.253	1.249	1.246	1.242	1.239	1.236	1.232	1.229	1.225	1.222	1.219	1.216	1.213
18	1.348	1.344	1.340	1.336	1.332	1.328	1.324	1.320	1.316	1.312	1.308	1.304	1.301	1.297	1.293	1.289	1.286	1.282	1.279	1.275	1.272	1.268	1.265	1.261	1.258	1.254
19	1.395	1.391	1.387	1.382	1.378	1.374	1.369	1.365	1.361	1.357	1.353	1.349	1.345	1.341	1.337	1.333	1.329	1.326	1.322	1.318	1.314	1.311	1.307	1.303	1.300	1.296
20	1.442	1.438	1.433	1.429	1.424	1.420	1.415	1.411	1.406	1.402	1.398	1.393	1.389	1.385	1.381	1.377	1.373	1.369	1.365	1.361	1.357	1.353	1.349	1.346	1.342	1.338
21	1.489	1.485	1.480	1.475	1.470	1.465	1.1.461	1.456	1.452	1.447	1.442	1.438	1.434	1.429	1.425	1.421	1.416	1.412	1.408	1.404	1.400	1.396	1.392	1.388	1.384	1.380
22	1.536	1.531	1.526	1.521	1.516	1.511	1.506	1.502	1.497	1.492	1.487	1.483	1.478	1.473	1.469	1.464	1.460	1.455	1.451	1.447	1.442	1.438	1.434	1.430	1.426	1.422
23	1.583	1.578	1.573	1.568	1.562	1.557	1.552	1.547	1.542	1.537	1.532	1.527	1.522	1.518	1.513	1.508	1.503	1.499	1.494	1.490	1.485	1.481	1.476	1.472	1.468	1.463
24	1.630	1.625	1.619	1.614	1.608	1.603	1.598	1.592	1.587	1.582	1.577	1.572	1.567	1.562	1.557	1.552	1.547	1.542	1.537	1.533	1.528	1.523	1.519	1.514	1.510	1.505
25	1.677	1.672	1.666	1.660	1.654	1.649	1.643	1.638	1.632	1.627	1.622	1.616	1.611	1.606	1.601	1.596	1.590	1.585	1.580	1.576	1.571	1.566	1.561	1.556	1.552	1.547
26	1.724	1.718	1.712	1.706	1.701	1.695	1.689	1.683	1.677	1.672	1.666	1.661	1.655	1.650	1.645	1.639	1.634	1.629	1.624	1.618	1.613	1.608	1.603	1.598	1.594	1.589
27	1.771	1.765	1.759	1.753	1.747	1.741	1.735	1.729	1.723	1.717	1.711	1.705	1.700	1.694	1.688	1.683	1.677	1.672	1.667	1.661	1.565	1.651	1.646	1.641	1.636	1.630
28	1.818	1.812	1.805	1.799	1.793	1.786	1.780	1.774	1.768	1.762	1.756	1.750	1.744	1.738	1.732	1.727	1.721	1.715	1.710	1.704	1.699	1.693	1.688	1.683	1.677	1.672
29	1.865	1.859	1.852	1.845	1.839	1.832	1.826	1.819	1.813	1.807	1.801	1.794	1.788	1.782	1.776	1.770	1.765	1.759	1.753	1.747	1.742	1.736	1.730	1.725	1.719	1.714
30	1.912	1.905	1.899	1.892	1.885	1.878	1.871	1.865	1.858	1.852	1.845	1.839	1.833	1.826	1.820	1.814	1.808	1.802	1.796	1.790	1.784	1.779	1.773	1.767	1.761	1.756
31	1.959	1.952	1.945	1.938	1.931	1.924	1.917	1.910	1.903	1.897	1.890	1.884	1.877	1.871	1.864	1.858	1.852	1.845	1.839	1.833	1.827	1.821	1.815	1.809	1.803	1.798
32	2.006	1.999	1.992	1.984	1.977	1.970	1.963	1.956	1.949	1.942	1.935	1.928	1.921	1.915	1.908	1.902	1.895	1.889	1.882	1.876	1.870	1.864	1.857	1.851	1.845	1.839
33	2.053	2.046	2.038	2.031	2.023	2.016	2.008	2.001	1.994	1.987	1.980	1.973	1.966	1.959	1.952	1.945	1.939	1.932	1.925	1.919	1.912	1.906	1.900	1.894	1.887	1.881
34	2.100	2.093	2.085	2.077	2.069	2.062	2.054	2.046	2.039	2.032	2.024	2.017	2.010	2.003	1.996	1.989	1.982	1.975	1.969	1.962	1.955	1.949	1.942	1.936	1.929	1.923
35	2.147	2.139	2.131	2.123	2.115	2.107	2.100	2.092	2.084	2.077	2.069	2.062	2.054	2.047	2.040	2.033	2.026	2.019	2.012	2.005	1.998	1.991	1.984	1.978	1.971	1.965
36	2.194	2.186	2.178	2.169	2.161	2.153	2.145	2.137	2.129	2.122	2.114	2.106	2.099	2.091	2.084	2.076	2.069	2.062	2.055	2.048	2.041	2.034	2.027	2.020	2.013	2.006
37	2.241	2.233	2.224	2.216	2.207	2.199	2.191	2.183	2.175	2.167	2.159	2.151	2.143	2.135	2.128	2.120	2.113	2.105	2.098	2.091	2.083	2.076	2.069	2.062	2.055	2.048
38	2.288	2.280	2.271	2.262	2.253	2.245	2.236	2.228	2.220	2.212	2.203	2.195	2.187	2.179	2.172	2.164	2.156	2.149	2.141	2.134	2.126	2.119	2.112	2.104	2.097	2.090
39	2.335	2.326	2.317	2.308	2.300	2.291	2.282	2.274	2.265	2.257	2.248	2.240	2.232	2.224	2.216	2.208	2.200	2.192	2.184	2.176	2.169	2.161	2.154	2.146	2.139	2.132
40	2.382	2.373	2.364	2.355	2.346	2.337	2.328	2.319	2.310	2.302	2.293	2.284	2.276	2.268	2.260	2.251	2.243	2.235	2.227	2.219	2.212	2.204	2.196	2.189	2.181	2.174

	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225
41	2.429	2.420	2.410	2.401	2.392	2.382	2.373	2.364	2.355	2.347	2.338	2.329	2.320	2.312	2.303	2.295	2.287	2.279	2.270	2.262	2.254	2.246	2.239	2.231	2.223	2.215
42	2.476	2.467	2.457	2.447	2.438	2.428	2.419	2.410	2.401	2.391	2.382	2.374	2.365	2.356	2.347	2.339	2.330	2.322	2.314	2.305	2.297	2.289	2.281	2.273	2.265	2.257
43	2.523	2.513	2.503	2.494	2.484	2.474	2.465	2.455	2.446	2.436	2.427	2.418	2.409	2.400	2.391	2.382	2.374	2.365	2.357	2.348	2.340	2.331	2.323	3.315	2.307	2.299
44	2.570	2.560	2.550	2.540	2.530	2.520	2.510	2.501	2.491	2.481	2.472	2.463	2.453	2.444	2.435	2.426	2.417	2.408	2.400	2.391	2.382	2.374	2.366	2.357	2.349	2.341
45	2.617	2.607	2.597	2.586	2.576	2.566	2.556	2.546	2.536	2.526	2.517	2.507	2.498	2.488	2.479	2.470	2.461	2.452	2.443	2.434	2.425	2.417	2.408	2.399	2.391	2.382
46	2.664	2.654	2.643	2.633	2.622	2.612	2.602	2.591	2.581	2.571	2.562	2.552	2.542	2.533	2.523	2.514	2.504	2.495	2.486	2.477	2.468	2.459	2.450	2.442	2.433	2.424
47	2.711	2.701	2.690	2.679	2.668	2.658	2.647	2.637	2.627	2.616	2.606	2.596	2.586	2.577	2.567	2.557	2.548	2.538	2.529	2.520	2.511	2.502	2.493	2.484	2.475	2.466
48	2.758	2.747	2.736	2.725	2.714	2.703	2.693	2.682	2.672	2.661	2.651	2.641	2.631	2.621	2.611	2.601	2.591	2.582	2.572	2.563	2.553	2.544	2.535	2.526	2.517	2.508
49	2.805	2.794	2.783	2.771	2.760	2.749	2.738	2.728	2.717	2.706	2.696	2.685	2.675	2.665	2.655	2.645	2.635	2.625	2.615	2.606	2.596	2.587	2.577	2.568	2.559	2.550
50	2.852	2.841	2.829	2.818	2.806	2.795	2.784	2.773	2.762	2.751	2.741	2.730	2.719	2.709	2.699	2.689	2.678	2.668	2.658	2.649	2.639	2.629	2.620	2.610	2.601	2.591
51	2.899	2.888	2.876	2.864	2.852	2.841	2.830	2.818	2.807	2.796	2.785	2.775	2.764	2.753	2.743	2.732	2.722	2.712	2.702	2.692	2.682	2.672	2.662	2.652	2.643	2.633
52	2.946	2.934	2.922	2.910	2.899	2.887	2.875	2.864	2.852	2.841	2.830	2.819	2.808	2.797	2.787	2.776	2.765	2.755	2.745	2.734	2.724	2.714	2.704	2.694	2.685	2.675
53	2.993	2.981	2.969	2.957	2.945	2.933	2.921	2.909	2.898	2.886	2.875	2.864	2.852	2.841	2.831	2.820	2.809	2.798	2.788	2.777	2.767	2.757	2.747	2.737	2.727	2.717
54	3.040	3.029	3.015	3.003	2.991	2.979	2.967	2.955	2.943	2.931	2.920	2.908	2.897	2.886	2.874	2.863	2.852	2.842	2.831	2.820	2.810	2.799	2.789	2.779	2.769	2.758
55	3.087	3.075	3.062	3.049	3.037	3.024	3.012	3.000	2.988	2.976	2.964	2.953	2.941	2.930	2.918	2.907	2.896	2.885	2.874	2.863	2.852	2.842	2.831	2.821	2.811	2.800
56	3.134	3.121	3.108	3.096	3.083	3.070	3.058	3.045	3.033	3.021	3.009	2.997	2.986	2.974	2.962	2.951	2.940	2.928	2.917	2.906	2.895	2.884	2.874	2.863	2.852	2.842
57	3.181	3.168	3.155	3.142	3.129	3.116	3.103	3.091	3.078	3.066	3.054	3.042	3.030	3.018	3.006	2.995	2.983	2.972	2.960	2.949	2.938	2.927	2.916	2.905	2.894	2.884
58	3.228	3.215	3.202	3.188	3.175	3.162	3.149	3.136	3.124	3.111	3.099	3.086	3.074	3.062	3.050	3.038	3.027	3.015	3.003	2.992	2.981	2.969	2.958	2.947	2.936	2.926
59	3.275	3.262	3.248	3.235	3.221	3.208	3.195	3.182	3.169	3.156	3.143	3.131	3.119	3.106	3.094	3.082	3.070	3.058	3.047	3.035	3.023	3.012	3.001	2.989	2.978	2.967
60	3.322	3.308	3.295	3.281	3.267	3.254	3.240	3.227	3.214	3.201	3.188	3.175	3.163	3.150	3.138	3.126	3.114	3.102	3.090	3.078	3.066	3.055	3.043	3.032	3.020	3.009
61	3.369	3.355	3.341	3.327	3.313	3.300	3.286	3.273	3.259	3.246	3.233	3.220	3.207	3.195	3.182	3.169	3.157	3.145	3.133	3.121	3.109	3.097	3.085	3.074	3.062	3.051
62	3.416	3.402	3.388	3.373	3.359	3.345	3.332	3.318	3.304	3.291	3.278	3.265	3.252	3.239	3.226	3.213	3.201	3.188	3.176	3.164	3.152	3.140	3.128	3.116	3.104	3.093
63	3.463	3.449	3.434	3.420	3.405	3.391	3.377	3.363	3.350	3.336	3.322	3.309	3.296	3.283	3.270	3.257	3.244	3.232	3.219	3.207	3.194	3.182	3.170	3.158	3.146	3.134
64	3.510	3.496	3.481	3.466	3.452	3.437	3.423	3.409	3.395	3.381	3.367	3.354	3.340	3.327	3.314	3.301	3.288	3.275	3.262	3.250	3.237	3.225	3.212	3.200	3.188	3.176
65	3.557	3.542	3.527	3.512	3.498	3.483	3.469	3.454	3.440	3.426	3.412	3.398	3.385	3.371	3.358	3.344	3.331	3.318	3.305	3.292	3.280	3.267	3.255	3.242	3.230	3.218
66	3.604	3.589	3.574	3.559	3.544	3.529	3.514	3.500	3.485	3.471	3.457	3.443	3.429	3.415	3.402	3.388	3.375	3.361	3.348	3.335	3.322	3.310	3.297	3.285	3.272	3.260
67	3.651	3.636	3.620	3.605	3.590	3.575	3.560	3.545	3.530	3.516	3.502	3.487	3.473	3.459	3.445	3.432	3.418	3.405	3.391	3.378	3.365	3.352	3.339	3.327	3.314	3.302
68	3.698	3.683	3.667	3.651	3.636	3.621	3.605	3.590	3.576	3.561	3.546	3.532	3.518	3.503	3.489	3.476	3.462	3.448	3.435	3.421	3.408	3.395	3.382	3.369	3.356	3.343
69	3.745	3.729	3.713	3.698	3.682	3.666	3.651	3.636	3.621	3.606	3.591	3.576	3.562	3.548	3.533	3.519	3.505	3.491	3.478	3.464	3.451	3.437	3.424	3.411	3.398	3.385
70	3.792	3.776	3.760	3.744	3.728	3.712	3.697	3.681	3.666	3.651	3.636	3.621	3.606	3.592	3.577	3.563	3.549	3.535	3.521	3.507	3.493	3.480	3.466	3.453	3.440	3.427

Tables for Computing the Harris-Jacobson Readability Formula II

Prepared by Lawrence L. Smith
University of Florida

Table I - Sentence Length

Number of Words in Sample

Number of Sentences in Sample	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230
5	6.120	6.151	6.181	6.212	6.242	6.273	6.304	6.334	6.365	6.395	6.426	6.457	6.487	6.518	6.548	6.579	6.610	6.640	6.671	6.701	6.732	6.763	6.793	6.824	6.854	6.885	6.916	6.946	6.977	7.007	7.038
6	5.100	5.125	5.151	5.176	5.202	5.227	5.253	5.278	5.304	5.329	5.355	5.380	5.406	5.431	5.457	5.482	5.508	5.533	5.559	5.584	5.610	5.635	5.661	5.686	5.712	5.737	5.763	5.788	5.814	5.839	5.865
7	4.371	4.393	4.415	4.437	4.459	4.481	4.503	4.524	4.546	4.568	4.590	4.612	4.634	4.656	4.677	4.699	4.721	4.743	4.765	4.787	4.809	4.830	4.852	4.874	4.896	4.918	4.940	4.962	4.983	5.005	5.027
8	3.825	3.844	3.863	3.882	3.901	3.921	3.940	3.595	3.978	3.997	4.016	4.035	4.054	4.074	4.093	4.112	4.131	4.150	4.169	4.188	4.207	4.227	4.246	4.265	4.284	4.303	4.322	4.341	4.360	4.380	4.399
9	3.400	3.417	3.434	3.451	3.468	3.485	3.502	3.519	3.536	3.553	3.570	3.587	3.604	3.621	3.638	3.655	3.672	3.689	3.706	3.723	3.740	3.757	3.774	3.791	3.808	3.825	3.842	3.859	3.876	3.893	3.910
10	3.060	3.075	3.091	3.106	3.121	3.136	3.152	3.167	3.182	3.198	3.213	3.228	3.244	3.259	3.274	3.289	3.305	3.320	3.335	3.351	3.366	3.381	3.397	3.412	3.427	3.442	3.458	3.473	3.488	3.504	3.519
11	2.782	2.796	2.810	2.824	2.837	2.851	2.865	2.879	2.893	2.907	2.921	2.935	2.949	2.963	2.977	2.990	3.004	3.018	3.032	3.046	3.060	3.074	3.088	3.102	3.116	3.130	3.143	3.157	3.171	3.185	3.199
12	2.550	2.536	2.575	2.588	2.601	2.614	2.626	2.639	2.652	2.665	2.677	2.690	2.703	2.716	2.728	2.741	2.754	2.767	2.779	2.792	2.805	2.818	2.830	2.843	2.856	2.869	2.881	2.894	2.907	2.920	2.932
13	2.354	2.366	2.377	2.389	2.401	2.413	2.424	2.2436	2.448	2.460	2.472	2.483	2.495	2.507	2.519	2.530	2.542	2.554	2.566	2.577	2.589	2.601	2.613	2.625	2.636	2.648	2.660	2.672	2.683	2.695	2.707
14	2.186	2.197	2.208	2.218	2.229	2.240	2.251	2.262	2.273	2.284	2.295	2.306	2.317	2.328	2.339	2.350	2.361	2.371	2.383	2.393	2.404	2.415	2.426	2.437	2.448	2.459	2.470	2.481	2.492	2.503	2.514
15	2.040	2.050	2.060	2.071	2.081	2.091	2.101	2.111	2.122	2.132	2.142	1.152	2.162	2.173	2.183	2.193	2.203	2.213	2.224	2.234	2.244	2.254	2.264	2.275	2.285	2.295	2.305	2.315	2.325	2.336	2.346
16	1.912	1.922	1.932	1.941	1.951	1.960	1.970	1.979	1.989	1.999	2.008	2.018	2.027	2.037	2.046	2.056	2.065	2.075	2.085	2.094	2.104	2.113	2.123	2.132	2.142	2.152	2.161	2.171	2.180	2.190	2.199
17	1.800	1.809	1.818	1.827	1.836	1.845	1.854	1.863	1.872	1.881	1.890	1.899	1.908	1.917	1.926	1.935	1.944	1.953	1.962	1.971	1.980	1.989	1.998	2.007	2.016	2.025	2.034	2.043	2.052	2.061	2.070
18	1.700	1.708	1.717	1.725	1.734	1.742	1.751	1.759	1.768	1.776	1.785	1.793	1.802	1.810	1.819	1.827	1.836	1.844	1.853	1.861	1.870	1.878	1.887	1.895	1.904	1.912	1.921	1.929	1.938	1.946	1.955
19	1.611	1.619	1.627	1.635	1.643	1.651	1.659	1.667	1.675	1.683	1.691	1.699	1.707	1.715	1.723	1.731	1.739	1.747	1.755	1.764	1.772	1.780	1.788	1.796	1.804	1.812	1.820	1.828	1.836	1.844	1.852
20	1.530	1.538	1.545	1.553	1.561	1.568	1.576	1.584	1.591	1.599	1.606	1.614	1.622	1.629	1.637	1.645	1.652	1.660	1.668	1.675	1.683	1.691	1.698	1.706	1.714	1.721	1.729	1.737	1.744	1.752	1.759
21	1.457	1.464	1.472	1.479	1.486	1.494	1.501	1.508	1.515	1.523	1.530	1.537	1.545	1.552	1.559	1.566	1.574	1.581	1.588	1.596	1.603	1.610	1.617	1.625	1.632	1.639	1.647	1.654	1.661	1.668	1.676
22	1.391	1.398	1.405	1.412	1.419	1.426	1.433	1.440	1.447	1.453	1.460	1.467	1.474	1.481	1.488	1.495	1.502	1.509	1.516	1.523	1.530	1.537	1.544	1.551	1.558	1.565	1.572	1.579	1.586	1.593	1.600
23	1.330	1.337	1.344	1.350	1.357	1.364	1.370	1.377	1.384	1.390	1.397	1.404	1.410	1.417	1.424	1.430	1.437	1.444	1.450	1.457	1.463	1.470	1.477	1.483	1.490	1.497	1.503	1.510	1.517	1.523	1.530
24	1.275	1.281	1.288	1.294	1.300	1.307	1.313	1.320	1.326	1.332	1.339	1.345	1.351	1.358	1.364	1.371	1.377	1.383	1.390	1.396	1.402	1.409	1.415	1.422	1.428	1.434	1.441	1.447	1.453	1.460	1.466
25	1.224	1.230	1.236	1.242	1.248	1.255	1.261	1.267	1.273	1.279	1.285	1.291	1.297	1.304	1.310	1.316	1.322	1.328	1.334	1.340	1.346	1.353	1.359	1.365	1.371	1.377	1.383	1.389	1.395	1.401	1.408
26	1.177	1.183	1.189	1.195	1.200	1.206	1.212	1.218	1.224	1.230	1.236	1.242	1.248	1.253	1.259	1.265	1.271	1.277	1.283	1.289	1.295	1.300	1.306	1.312	1.318	1.324	1.330	1.336	1.342	1.348	1.353
27	1.133	1.139	1.145	1.150	1.156	1.162	1.167	1.173	1.179	1.184	1.190	1.196	1.201	1.207	1.213	2.218	1.224	1.230	1.235	1.241	1.247	1.252	1.258	1.264	1.269	1.275	1.281	1.286	1.292	1.298	1.303
28	1.093	1.098	1.104	1.109	1.115	1.120	1.126	1.131	1.137	1.142	1.147	1.153	1.158	1.164	1.169	1.175	1.180	1.186	1.191	1.197	1.202	1.208	1.213	1.219	1.224	1.229	1.235	1.240	1.246	1.251	1.257
29	1.055	1.060	1.066	1.071	1.076	1.082	1.087	1.092	1.097	1.103	1.108	1.113	1.118	1.124	1.129	1.134	1.140	1.145	1.150	1.155	1.161	1.166	1.171	1.177	1.182	1.187	1.192	1.198	1.203	1.208	1.213
30	1.020	1.025	1.030	1.035	1.040	1.045	1.051	1.056	1.061	.1066	1.071	1.076	1.081	1.086	1.091	1.096	1.102	1.107	1.112	1.117	1.122	1.127	1.132	1.137	1.142	1.147	1.153	1.158	1.163	1.168	1.173
31	0.987	0.992	0.997	1.002	1.007	1.012	1.017	1.022	1.027	1.032	1.036	1.041	1.046	1.051	1.056	1.061	1.066	1.071	1.076	1.081	1.086	1.091	1.096	1.101	1.106	1.110	1.115	1.120	1.125	1.130	1.135
32	0.956	0.961	0.966	0.971	0.975	0.980	0.985	0.990	0.994	0.999	1.004	1.009	1.014	1.018	1.023	1.028	1.033	1.038	1.042	1.047	1.052	1.057	1.061	1.066	1.071	1.076	1.081	1.085	1.090	1.095	1.100
33	0.927	0.932	0.937	0.941	0 946	0.950	0.955	0.960	0.964	0.969	0.974	0.978	0.983	0.988	0.992	0.997	1.001	1.006	1.011	1.015	1.020	1.025	1.029	1.034	1.039	1.034	1.048	1.062	1.067	1.062	1.066
34	0.900	0.904	0.909	0.913	0.918	0.922	0.927	0.931	0.936	0.940	0.945	0.949	0.954	0.958	0.963	0.967	0.972	0.976	0.981	0.985	0.990	0.994	0.999	1.003	1.008	1.012	1.017	1.021	1.026	1.030	1.035
35	0.874	0.879	0.883	0.887	0.892	0.896	0.901	0.905	0.909	0.914	0.918	0.922	0.927	0.931	0.935	0.940	0.944	0.949	0.953	0.957	0.962	0.966	0.970	0.975	0.979	0.984	0.988	0.992	0.997	1.001	1.006
36	0.850	0.854	0.858	0.863	0.867	0.871	0.875	0.880	0.884	0.888	0.892	0.897	0.901	0.905	0.909	0.914	0.918	0.922	0.926	0.931	0.935	0.939	0.943	0.948	0.952	0.956	0.960	0.965	0.969	0.973	0.977
37	0.827	0.831	0.835	0.839	0.844	0.848	0.852	0.856	0.860	0.864	0.868	0.873	0.877	0.881	0.885	0.889	0.893	0.897	0.901	0.906	0.910	0.914	0.918	0.922	0.926	0.930	0.935	0.939	0.943	0.947	0.951
38	0.805	0.809	0.813	0.817	0.821	0.825	0.829	0.833	0.837	0.841	0.846	0.850	0.854	0.858	0.862	0.866	0.870	0.874	0.878	0.882	0.886	0.890	0.894	0.898	0.902	0.906	0.910	0.914	0.918	0.922	0.926
39	0.785	0.789	0.792	0.796	0.800	0.804	0.808	0.812	0.816	0.820	0.824	0.828	0.832	0.836	0.840	0.843	0.847	0.851	0.855	0.859	0.863	0.867	0.871	0.875	0.879	0.883	0.887	0.891	0.894	0.898	0.902
40	0.765	0.769	0.773	0.776	0.780	0.784	0.788	0.792	0.796	0.799	0.803	0.807	0.811	0.815	0.819	0.822	0.826	0.830	0.834	0.838	0.841	0.845	0.849	0.853	0.857	0.861	0.864	0.868	0.872	0.876	0.880
41	0.746	0.750	0.754	0.758	0.761	0.765	0.769	0.772	0.776	0.780	0.784	0.787	0.791	0.795	0.799	0.802	0.806	0.810	0.814	0.817	0.821	0.825	0.828	0.832	0.836	0.840	0.843	0.847	0.851	0.855	0.858
42	0.729	0.732	0.736	0.739	0.743	0.747	0.750	0.754	0.758	0.761	0.765	0.769	0.772	0.776	0.780	0.783	0.787	0.790	0.794	0.798	0.801	0.805	0.809	0.812	0.816	0.820	0.823	0.827	0.831	0.834	0.838
43	0.712	0.715	0.719	0.722	0.726	0.729	0.733	0.737	0.740	0.744	0.747	0.751	0.754	0.758	0.761	0.765	0.769	0.772	0.776	0.779	0.783	0.786	0.790	0.793	0.797	0.801	0.804	0.808	0.811	0.815	0.818
44	0.695	0.699	0.702	0.706	0.709	0.713	0.716	0.720	0.723	0.727	0.730	0.734	0.737	0.741	0.744	0.748	0.751	0.755	0.758	0.762	0.765	0.768	0.772	0.775	0.779	0.782	0.786	0.789	0.793	0.796	0.800
45	0.680	0.683	0.687	0.690	0.694	0.697	0.700	0.704	0.707	0.711	0.714	0.717	0.721	0.724	0.728	0.731	0.734	0.738	0.741	0.745	0.748	0.751	0.755	0.758	0.762	0.765	0.768	0.772	0.775	0.779	0.782
46	0.665	0.669	0.672	0.675	0.679	0.682	0.685	0.688	0.692	0.695	0.698	0.702	0.705	0.708	0.712	0.715	0.718	0.722	0.725	0.728	0.732	0.735	0.738	0.742	0.745	0.748	0.752	0.755	0.758	0.762	0.765
47	0.651	0.654	0.658	0.661	0.664	0.667	0.671	0.674	0.677	0.680	0.684	0.687	0.690	0.693	0.697	0.700	0.703	0.706	0.710	0.713	0.716	0.719	0.723	0.726	0.729	0.732	0.736	0.739	0.742	0.745	0.749
48	0.637	0.641	0.644	0.647	0.650	0.653	0.657	0.660	0.663	0.666	0.669	0.673	0.676	0.679	0.682	0.685	0.688	0.692	0.695	0.698	0.701	0.704	0.708	0.711	0.714	0.717	0.720	0.724	0.727	0.730	0.733
49	0.624	0.628	0.631	0.634	0.637	0.640	0.643	0.646	0.649	0.653	0.656	0.659	0.662	0.665	0.668	0.671	0.674	0.678	0.681	0.684	0.687	0.690	0.693	0.696	0.699	0.703	0.706	0.709	0.712	0.715	0.718
50	0.612	0.615	0.618	0.621	0.624	0.627	0.630	0.633	0.636	0.640	0.643	0.646	0.649	0.652	0.655	0.658	0.661	0.664	0.667	0.670	0.673	0.676	0.679	0.682	0.685	0.0688	0.692	0.695	0.698	0.701	0.704

Tables for Computing the Harris-Jacobson Readability Formula II

Prepared by Lawrence L. Smith
University of Florida

Table II - Number of "Unfamiliar Words"

Number of Words in Sample

Number of "Unfamiliar Words" in Sample

	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230
0	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561
1	0.630	0.630	0.630	0.629	0.629	0.629	0.628	0.628	0.628	0.627	0.627	0.627	0.627	0.626	0.626	0.626	0.625	0.625	0.625	0.624	0.624	0.624	0.624	0.623	0.623	0.623	0.622	0.622	0.622	0.622	0.621
2	0.700	0.700	0.699	0.698	0.698	0.697	0.696	0.696	0.695	0.694	0.694	0.693	0.693	0.692	0.691	0.691	0.690	0.690	0.689	0.688	0.688	0.687	0.687	0.686	0.685	0.685	0.684	0.684	0.683	0.683	0.682
3	0.770	0.769	0.768	0.767	0.766	0.765	0.764	0.763	0.762	0.761	0.761	0.760	0.759	0.758	0.757	0.756	0.755	0.754	0.753	0.752	0.751	0.751	0.750	0.749	0.748	0.747	0.746	0.746	0.745	0.744	0.743
4	0.840	0.839	0.838	0.836	0.835	0.834	0.832	0.831	0.830	0.828	0.827	0.826	0.825	0.823	0.822	0.821	0.820	0.819	0.817	0.816	0.815	0.814	0.813	0.812	0.810	0.809	0.808	0.807	0.806	0.805	0.804
5	0.910	0.909	0.907	0.905	0.904	0.902	0.900	0.899	0.897	0.895	0.894	0.892	0.891	0.889	0.888	0.886	0.885	0.883	0.882	0.880	0.879	0.877	0.876	0.874	0.873	0.872	0.870	0.869	0.868	0.866	0.865
6	0.980	0.978	0.976	0.974	0.972	0.970	0.968	0.966	0.964	0.962	0.961	0.959	0.957	0.955	0.953	0.951	0.949	0.948	0.946	0.944	0.942	0.941	0.939	0.937	0.935	0.934	0.932	0.931	0.929	0.927	0.926
7	1.050	1.048	1.046	1.043	1.041	1.039	1.036	1.034	1.032	1.029	1.027	1.025	1.023	1.021	1.018	1.016	1.014	1.012	1.010	1.008	1.006	1.004	1.002	1.000	0.998	0.996	0.994	0.992	0.990	0.988	0.987
8	1.120	1.118	1.115	1.112	1.110	1.107	1.104	1.102	1.099	1.096	1.094	1.091	1.089	1.086	1.084	1.081	1.079	1.077	1.074	1.072	1.070	1.067	1.065	1.063	1.060	1.058	1.056	1.054	1.052	1.050	1.047
9	1.190	1.187	1.184	1.181	1.178	1.175	1.172	1.169	1.166	1.163	1.160	1.158	1.155	1.152	1.149	1.147	1.144	1.141	1.138	1.136	1.133	1.131	1.128	1.126	1.123	1.120	1.118	1.116	1.113	1.111	1.108
10	1.260	1.257	1.254	1.250	1.247	1.243	1.240	1.237	1.234	1.230	1.227	1.224	1.221	1.218	1.215	1.212	1.209	1.206	1.203	1.200	1.197	1.194	1.191	1.188	1.185	1.183	1.180	1.177	1.175	1.172	1.169
11	1.330	1.327	1.323	1.319	1.315	1.312	1.308	1.304	1.301	1.297	1.294	1.290	1.287	1.284	1.280	1.277	1.273	1.270	1.267	1.264	1.260	1.257	1.254	1.251	1.248	1.245	1.242	1.239	1.236	1.233	1.230
12	1.400	1.396	1.392	1.388	1.384	1.380	1.376	1.372	1.368	1.364	1.360	1.357	1.353	1.349	1.346	1.342	1.338	1.335	1.331	1.328	1.324	1.321	1.317	1.314	1.310	1.307	1.304	1.301	1.297	1.294	1.291
13	1.470	1.466	1.461	1.457	1.453	1.448	1.444	1.440	1.435	1.431	1.427	1.423	1.419	1.415	1.411	1.407	1.403	1.399	1.395	1.392	1.388	1.384	1.380	1.377	1.373	1.369	1.366	1.362	1.359	1.355	1.352
14	1.540	1.536	1.531	1.526	1.521	1.517	1.512	1.507	1.503	1.498	1.494	1.489	1.485	1.481	1.476	1.472	1.468	1.464	1.460	1.455	1.451	1.447	1.443	1.439	1.435	1.432	1.428	1.424	1.420	1.416	1.413
15	1.610	1.605	1.600	1.595	1.590	1.585	1.580	1.575	1.570	1.565	1.560	1.556	1.551	1.546	1.542	1.537	1.533	1.528	1.524	1.519	1.515	1.511	1.506	1.502	1.498	1.494	1.490	1.486	1.482	1.478	1.474
16	1.680	1.675	1.669	1.664	1.659	1.653	1.648	1.643	1.637	1.632	1.627	1.622	1.617	1.612	1.607	1.602	1.598	1.593	1.588	1.583	1.579	1.574	1.570	1.565	1.560	1.556	1.552	1.547	1.543	1.539	1.534
17	1.750	1.745	1.739	1.733	1.727	1.721	1.716	1.710	1.705	1.699	1.694	1.688	1.683	1.678	1.673	1.667	1.662	1.657	1.652	1.647	1.642	1.637	1.633	1.628	1.623	1.618	1.614	1.609	1.604	1.600	1.595
18	1.820	1.814	1.808	1.802	1.796	1.790	1.784	1.778	1.772	1.766	1.760	1.755	1.749	1.744	1.738	1.733	1.727	1.722	1.716	1.711	1.706	1.701	1.696	1.691	1.685	1.680	1.676	1.671	1.666	1.661	1.656
19	1.890	1.884	1.877	1.871	1.864	1.858	1.852	1.846	1.839	1.833	1.827	1.821	1.815	1.809	1.803	1.798	1.792	1.786	1.781	1.775	1.770	1.764	1.759	1.753	1.748	1.743	1.737	1.732	1.727	1.722	1.717
20	1.960	1.954	1.947	1.940	1.933	1.926	1.920	1.913	1.907	1.900	1.894	1.888	1.881	1.875	1.869	1.863	1.857	1.851	1.845	1.839	1.833	1.827	1.822	1.816	1.810	1.805	1.799	1.794	1.789	1.783	1.778
21	2.030	2.023	2.016	2.009	2.002	1.995	1.988	1.981	1.974	1.967	1.960	1.954	1.947	1.941	1.934	1.928	1.922	1.915	1.909	1.903	1.897	1.891	1.885	1.879	1.873	1.867	1.861	1.856	1.850	1.844	1.839
22	2.100	2.093	2.085	2.078	2.070	2.063	2.056	2.048	2.041	2.034	2.027	2.020	2.013	2.007	2.000	1.993	1.986	1.980	1.973	1.967	1.960	1.954	1.948	1.942	1.935	1.929	1.923	1.917	1.911	1.905	1.900
23	2.170	2.162	2.155	2.147	2.139	2.131	2.124	2.116	2.109	2.101	2.094	2.087	2.079	2.072	2.065	2.058	2.051	2.044	2.038	2.031	2.024	2.018	2.011	2.004	1.998	1.992	1.985	1.979	1.973	1.967	1.960
24	2.240	2.232	2.224	2.216	2.208	2.200	2.192	2.184	2.176	2.168	2.160	2.153	2.145	2.138	2.131	2.123	2.116	2.109	2.102	2.095	2.088	2.081	2.074	2.067	2.060	2.054	2.047	2.041	2.034	2.028	2.021
25	2.310	2.302	2.293	2.285	2.276	2.268	2.260	2.251	2.243	2.235	2.227	2.219	2.211	2.024	2.196	2.188	2.181	2.173	2.166	2.159	2.151	2.144	2.137	2.130	2.123	2.116	2.109	2.102	2.096	2.089	2.082
26	2.380	2.371	2.362	2.354	2.345	2.336	2.327	2.319	2.310	2.302	2.294	2.286	2.277	2.269	2.261	2.254	2.246	2.238	2.230	2.223	2.215	2.208	2.200	2.193	2.185	2.178	2.171	2.164	2.157	2.150	2.143
27	2.450	2.441	2.432	2.423	2.413	2.404	2.395	2.387	2.378	2.369	2.360	2.352	2.344	2.335	2.327	2.319	2.310	2.302	2.294	2.287	2.279	2.271	2.263	2.256	2.248	2.240	2.233	2.226	2.218	2.211	2.204
28	2.520	2.511	2.501	2.492	2.482	2.473	2.463	2.454	2.445	2.436	2.427	2.418	2.410	2.401	2.392	2.384	2.375	2.367	2.359	2.350	2.342	2.334	2.326	2.318	2.310	2.303	2.295	2.287	2.280	2.272	2.265
29	2.590	2.580	2.570	2.560	2.551	2.541	2.531	2.522	2.512	2.503	2.494	2.485	2.476	2.467	2.458	2.449	2.440	2.431	2.423	2.414	2.406	2.398	2.389	2.381	2.373	2.365	2.357	2.349	2.341	2.333	2.326
30	2.660	2.650	2.640	2.629	2.619	2.609	2.599	2.589	2.580	2.570	2.560	2.551	2.542	2.532	2.523	2.514	2.505	2.496	2.487	2.478	2.470	2.461	2.452	2.444	2.435	2.427	2.419	2.411	2.403	2.395	2.387
31	2.730	2.720	2.709	2.698	2.688	2.678	2.667	2.657	2.647	2.637	2.627	2.617	2.608	2.598	2.589	2.579	2.570	2.560	2.551	2.542	2.533	2.524	2.515	2.507	2.498	2.489	2.481	2.472	2.464	2.456	2.447
32	2.800	2.789	2.778	2.767	2.757	2.746	2.735	2.725	2.714	2.704	2.694	2.684	2.674	2.664	2.654	2.644	2.635	2.625	2.616	2.606	2.597	2.588	2.579	2.569	2.560	2.552	2.543	2.534	2.525	2.517	2.508
33	2.870	2.859	2.848	2.836	2.825	2.814	2.803	2.792	2.782	2.771	2.760	2.750	2.740	2.730	2.719	2.709	2.699	2.690	2.680	2.670	2.660	2.651	2.642	2.632	2.623	2.614	2.606	2.596	2.587	2.578	2.569
34	2.940	2.929	2.917	2.905	2.894	2.882	2.871	2.860	2.849	2.838	2.827	2.816	2.806	2.795	2.785	2.774	2.764	2.754	2.744	2.734	2.724	2.714	2.705	2.695	2.685	2.676	2.667	2.657	2.648	2.639	2.630
35	3.010	2.998	2.986	2.974	2.962	2.951	2.939	2.928	2.916	2.905	2.894	2.883	2.872	2.861	2.850	2.840	2.829	2.819	2.808	2.798	2.788	2.778	2.768	2.758	2.748	2.738	2.729	2.719	2.710	2.700	2.691
36	3.080	3.068	3.056	3.043	3.031	3.019	3.007	2.995	2.984	2.972	2.960	2.949	2.938	2.927	2.916	2.905	2.894	2.883	2.872	2.862	2.851	2.841	2.831	2.821	2.810	2.800	2.791	2.781	2.771	2.761	2.752
37	3.150	3.138	3.125	3.112	3.100	3.087	3.075	3.063	3.051	3.039	3.027	3.015	3.004	2.992	2.981	2.970	2.959	2.948	2.937	2.926	2.915	2.904	2.894	2.883	2.873	2.863	2.853	2.842	2.832	2.823	2.813
38	3.220	3.207	3.194	3.181	3.168	3.156	3.143	3.131	3.118	3.106	3.094	3.082	3.070	3.058	3.046	3.035	3.023	3.012	3.001	2.990	2.979	2.968	2.957	2.946	2.935	2.925	2.914	2.904	2.894	2.884	2.874
39	3.290	3.277	3.263	3.250	3.237	3.224	3.211	3.198	1.185	3.173	3.160	3.148	3.136	3.124	3.112	3.100	3.088	3.077	3.065	3.054	3.042	3.031	3.020	3.009	2.998	2.987	2.976	2.966	2.955	2.945	2.934
40	3.360	3.347	3.333	3.319	3.306	3.292	3.279	3.266	3.253	3.240	3.227	3.215	3.202	3.190	3.177	3.165	3.153	3.141	3.129	3.118	3.106	3.094	3.083	3.072	3.060	3.049	3.038	3.027	3.017	3.006	2.995

	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230
41	3.438	3.418	3.402	3.388	3.374	3.360	3.347	3.333	3.319	3.307	3.294	3.281	3.268	3.255	3.243	3.230	3.218	3.206	3.194	3.182	3.170	3.158	3.146	3.134	3.123	3.112	3.100	3.089	3.078	3.067	3.056
42	3.500	3.486	3.471	3.457	3.443	3.429	3.415	3.401	3.387	3.374	3.360	3.347	3.334	3.321	3.308	3.295	3.283	3.270	3.258	3.245	3.233	3.221	3.209	3.197	3.185	3.174	3.162	3.151	3.139	3.128	3.117
43	3.570	3.556	3.541	3.526	3.511	3.497	3.483	3.469	3.455	3.441	3.427	3.414	3.400	3.387	3.374	3.360	3.348	3.335	3.322	3.309	3.297	3.284	3.272	3.260	3.248	3.236	3.224	3.212	3.201	3.189	3.178
44	3.640	3.625	3.610	3.595	3.580	3.565	3.551	3.536	3.522	3.508	3.494	3.480	3.466	3.453	3.439	3.426	3.412	3.399	3.386	3.373	3.360	3.348	3.335	3.323	3.310	3.298	3.286	3.274	3.262	3.250	3.239
45	3710	3.695	3.679	3.664	3.649	3.634	3.619	3.604	3.589	3.575	3.560	3.546	3.532	3.518	3.504	3.491	3.477	3.464	3.450	3.437	3.424	3.411	3.398	3.386	3.373	3.360	3.348	3.336	3.324	3.312	3.300
46	3.780	3.764	3.749	3.733	3.717	3.702	3.687	3.672	3.657	3.642	3.627	3.613	3.598	3.584	3.570	3.556	3.542	3.528	3.515	3.501	3.488	3.475	3.461	3.448	3.435	3.423	3.410	3.398	3.385	3.373	3.360
47	3.850	3.834	3.818	3.802	3.786	3.770	3.755	3.739	3.724	3.709	3.694	3.679	3.664	3.650	3.635	3.621	3.607	3.593	3.579	3.565	3.551	3.538	3.524	3.511	3.498	3.485	3.472	3.359	3.446	3.434	3.421
48	3.920	3.904	3.887	3.871	3.855	3.839	3.823	3.807	3.791	3.776	3.760	3.745	3.730	3.715	3.701	3.686	3.672	3.657	3.643	3.629	3.615	3.601	3.588	3.574	3.560	3.547	3.534	3.521	3.508	3.495	3.482
49	3.990	3.973	3.957	3.940	3.923	3.907	3.891	3.875	3.859	3.843	3.827	3.812	3.795	3.781	3.766	3.751	3.736	3.722	3.707	3.693	3.679	3.665	3.651	3.637	3.623	3.609	3.596	3.583	3.569	3.556	3.543
50	4.060	4.043	4.026	4.009	3.992	3.975	3.959	3.942	3.926	3.910	3.894	3.878	3.862	3.847	3.832	3.816	3.801	3.786	3.772	3.757	3.742	3.728	3.714	3.700	3.685	3.672	3.658	3.644	3.631	3.617	3.604
51	4.130	4.113	4.095	4.078	4.060	4.043	4.027	4.010	3.993	3.977	3.960	3.944	3.928	3.913	3.897	3.881	3.866	3.851	3.836	3.821	3.806	3.791	3.777	3.762	3.748	3.734	3.720	3.706	3.692	3.678	3.665
52	4.200	4.182	4.164	4.147	4.129	4.112	4.094	4.077	4.060	4.044	4.027	4.011	3.994	3.978	3.962	3.947	3.931	3.915	3.900	3.885	3.870	3.855	3.840	3.825	3.810	3.796	3.782	3.768	3.753	3.740	3.726
53	4.270	4.252	4.234	4.216	4.198	4.180	4.162	4.145	4.128	4.111	4.094	4.077	4.060	4.044	4.028	4.012	3.996	3.980	3.964	3.949	3.933	3.918	3.903	3.888	3.873	3.858	3.844	3.829	3.815	3.801	3.787
54	4.340	4.322	4.303	4.285	4.266	4.248	4.230	4.213	4.195	4.178	4.160	4.143	4.127	4.110	4.093	4.077	4.060	4.044	4.028	4.013	3.997	3.981	3.966	3.951	3.935	3.920	3.906	3.891	3.876	3.862	3.847
55	4.410	4.391	4.372	4.354	4.335	4.317	4.298	4.280	4.262	4.245	4.227	4.210	4.193	4.176	4.159	4.142	4.125	4.109	4.093	4.076	4.060	4.045	4.029	4.013	3.998	3.983	3.968	3.953	3.938	3.923	3.908
56	4.480	4.461	4.442	4.423	4.404	4.385	4.366	4.348	4.330	4.312	4.294	4.276	4.259	4.241	4.224	4.207	4.190	4.173	4.157	4.140	4.124	4.108	4.092	4.076	4.060	4.045	4.030	4.014	3.999	3.984	3.969
57	4.550	4.531	4.511	4.492	4.472	4.453	4.434	4.416	4.397	4.379	4.360	4.342	4.325	4.307	4.289	4.272	4.255	4.238	4.221	4.204	4.188	4.171	4.155	4.139	4.123	4.107	4.091	4.076	4.060	4.045	4.030
58	4.620	4.600	4.580	4.560	4.541	4.521	4.502	4.483	4.464	4.446	4.427	4.409	4.391	4.373	4.355	4.337	4.320	4.302	4.285	4.268	4.251	4.235	4.218	4.202	4.185	4.169	4.153	4.138	4.122	4.106	4.091
59	4.690	4.670	4.650	4.629	4.610	4.590	4.570	4.551	4.532	4.513	4.494	4.475	4.457	4.438	4.420	4.402	4.385	4.367	4.349	4.332	4.315	4.298	4.281	4.265	4.248	4.232	4.215	4.199	4.183	4.167	4.152
60	4.760	4.740	4.719	4.698	4.678	4.658	4.638	4.618	4.599	4.580	4.560	4.542	4.523	4.504	4.486	4.467	4.449	4.431	4.414	4.396	4.379	4.361	4.344	4.327	4.310	4.294	4.277	4.261	4.245	4.229	4.213
61	4.830	4.809	4.788	4.767	4.747	4.726	4.706	4.686	4.666	4.647	4.627	4.608	4.589	4.570	4.551	4.533	4.514	4.496	4.478	4.460	4.442	4.425	4.407	4.390	4.373	4.356	4.339	4.323	4.306	4.290	4.274
62	4.900	4.879	4.858	4.836	4.815	4.795	4.774	4.754	4.734	4.714	4.694	4.674	4.655	4.636	4.617	4.598	4.579	4.560	4.542	4.524	4.506	4.488	4.470	4.453	4.435	4.418	4.401	4.384	4.368	4.351	4.334
63	4.970	4.949	4.927	4.905	4.884	4.863	4.842	4.821	4.801	4.781	4.760	4.741	4.721	4.701	4.682	4.663	4.644	4.625	4.606	4.588	4.570	4.551	4.533	4.516	4.498	4.480	4.463	4.446	4.429	4.412	4.395
64	5.040	5.018	4.996	4.974	4.953	4.931	4.910	4.889	4.868	4.848	4.827	4.807	4.787	4.767	4.747	4.728	4.709	4.690	4.671	4.652	4.633	4.615	4.597	4.578	4.560	4.543	4.525	4.508	4.490	4.473	4.456
65	5.110	5.088	5.065	5.043	5.021	5.000	4.978	4.957	4.935	4.915	4.894	4.873	4.853	4.833	4.813	4.793	4.773	4.754	4.735	4.716	4.697	4.678	4.660	4.641	4.623	4.605	4.587	4.569	4.552	4.534	4.517
66	5.180	5.158	5.135	5.112	5.090	5.068	5.046	5.024	5.003	4.982	4.960	4.940	4.919	4.899	4.878	4.858	4.838	4.819	4.799	4.780	4.760	4.741	4.723	4.704	4.685	4.667	4.649	4.631	4.613	4.595	4.578
67	5.250	5.227	5.204	5.181	5.159	5.136	5.114	4.092	5.070	5.049	5.027	5.006	4.985	4.964	4.944	4.923	4.903	4.883	4.863	4.844	4.824	4.805	4.786	4.767	4.748	4.729	4.711	4.693	4.675	4.657	4.639
68	5.320	5.297	5.273	5.250	5.227	5.204	5.182	5.160	5.137	5.116	5.094	5.072	5.051	5.030	5.009	4.988	4.968	4.948	4.927	4.908	4.888	4.868	4.849	4.830	4.810	4.792	4.773	4.754	4.736	4.718	4.700
69	5.390	5.366	5.343	5.319	5.296	5.273	5.250	5.227	5.206	5.183	5.160	5.139	5.117	5.096	5.075	5.054	5.033	5.012	4.992	4.971	4.951	4.932	4.912	4.892	4.873	4.854	4.835	4.816	4.797	4.779	4.760
70	5.460	5.436	5.412	5.388	5.364	5.341	5.318	5.295	5.272	5.249	5.227	5.205	5.183	5.161	5.140	5.119	5.098	5.077	5.056	5.035	5.015	4.995	4.975	4.955	4.935	4.916	4.897	4.878	4.859	4.840	4.821
71	5.530	5.506	5.481	5.457	5.433	5.409	5.386	5.362	5.339	5.316	5.294	5.271	5.249	5.227	5.205	5.184	5.162	5.141	5.120	5.099	5.079	5.058	5.038	5.018	4.998	4.978	4.959	4.939	4.920	4.901	4.882
72	5.600	5.575	5.551	5.526	5.502	5.478	5.454	5.430	5.407	5.383	5.360	5.338	5.315	5.293	5.271	5.249	5.227	5.206	5.184	5.163	5.142	5.122	5.101	5.081	5.060	5.040	5.021	5.001	4.982	4.962	4.943
73	5.670	5.645	5.620	5.595	5.570	5.546	5.522	5.498	5.474	5.450	5.427	5.404	5.381	5.359	5.336	5.314	5.292	5.270	5.249	5.227	5.206	5.185	5.164	5.143	5.123	5.103	5.083	5.063	5.043	5.023	5.004
74	5.740	5.715	5.689	5.664	5.639	5.614	5.590	5.565	5.541	5.517	5.494	5.470	5.447	5.424	5.402	5.379	5.357	5.335	5.313	5.291	5.270	5.248	5.227	5.206	5.185	5.165	5.145	5.124	5.104	5.085	5.065
75	5.810	5.784	5.759	5.733	5.708	5.682	5.658	5.633	5.609	5.584	5.560	5.537	5.513	5.490	5.467	5.444	5.422	5.399	5.377	5.355	5.333	5.312	5.290	5.269	5.248	5.227	5.207	5.186	5.166	5.145	5.125